

E.O. 12812

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-49

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

CATERPILLAR

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Caterpillar 1988 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds.

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
JCT0636DAA8	10.4 (636)	Engine Modification

Engine models and codes are listed on attachments.

The following are emission standards for this engine family:

<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Particulates gm/bhp-hr</u>
1.3	15.5	6.0	0.6

The following are the certification emission values for this engine family:

<u>Hydrocarbons gm/bhp-hr</u>	<u>Monoxide gm/bhp-hr</u>	<u>Carbon Nitrogen Oxides gm/bhp-hr</u>	<u>Particulates gm/bhp-hr</u>
1.2	2.6	6.0	0.6

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order.

Executed at El Monte, California this 22nd day of October, 1987.


K. D. Drachand, Chief
Mobile Source Division

1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family JCT0636DAA8 Code B
Liter (CID) 10.4 (636) Engine Type V8
Emission Control Sys. and (Special Features) EM (PCV)

Engine Model	Fuel Injection Pump Manufacturer Part Number	Injector Manufacturer Part Number	Maximum Rated hp at rpm	Fuel Rate mm ³ /stroke (lbs/hr)	Maximum Rated Torque at RPM	Fuel Rate mm ³ /stroke (lbs/hr)
3208 DINA Code B	*Caterpillar 9Y0485	Caterpillar 7W7024	165 @ 2200	63 (62.7)	470 @ 1400	72 (45.1)

*Basic Fuel Pump 7C8929 (Reference Page No. 16.05.01-0636DAA-1).

Date of Issue 17 SEP 87 Revisions:

1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Caterpillar Inc. Engine Family JCT0636DAA8 Code B
 Evaporative Family NA Engine Type V8
 Liters (CID) 10.4 (636)

ABBREVIATIONS

Ignition System

CA -Centrifugal Advance
 ECU -Electronic Control Unit
 EI -Electronic Ignition
 ESAC-Electronic Spark Advance
 Control
 VA -Vacuum Advance
 VR -Vacuum Retard

Fuel System

CFI, CL, DID, DIP, EFI, MFI
 nV-nVenturi Carburetor

Exhaust Emissions
Control System

AIP -Air Injection-Pump
 AIV -Air Injection-Valve
 DBC -Dual Bed Catalyst
 EGR -Exhaust Gas
 Recirculation
 EIC -Electronic Injection
 Control
 EM -Engine Modification
 OC -Oxidation Catalyst
 OS -Oxygen Sensor
 HOS -Heated Oxygen Sensor
 SPL -Smoke Puff Limiter or
 Throttle Delay
 TOC -Trap Oxidizer,
 Continual
 TOP -Trap Oxidizer,
 Periodical
 TWC -Three-Way Catalyst
 WUOC -Warm-Up Oxidation
 Catalyst
 WUTWC-Warm-Up Three-Way
 Catalyst

Special Features

CCV -Combustion
 Chamber Valve
 CFI -Central Fuel
 Injection or
 Throttle Body
 Injection
 DID -Diesel
 Injection-Direct
 DIP -Diesel
 Injection-
 Prechamber
 EFI -Electronic
 Fuel Injection
 IC -Intercooler or
 Aftercooler
 MFI -Mechanical Fuel
 Injection
 OBD -On-Board
 Diagnostics
 TC -Turbocharger
 ATAAC-Air-to-Air
 Aftercooled
 PEEC -Programmable
 Electronic
 Engine Control
 PCV -Positive
 Crankcase
 Ventilation

VEHICLE MODELS:

Engine: Front _____ Mid. _____ Rear _____
 Drive: FWD _____ RWD _____ 4WD Full Time _____ 4WD Part Time _____